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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/685,182	10/14/2003	Shek Fai Lau	112440-743	4252
29190 BELL, BOYD &	7590 04/26/200 & LLOYD LLP	7 ~	EXAMINER	
P.O. BOX 1135			MAYEKAR, KISHOR	
CHICAGO, IL 60690			ART UNIT	PAPER NUMBER
			1753	
				-
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MOI	NTHS	04/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)		_			
	10/685,182	LAU ET AL.	·				
Office Action Summary	Examiner	Art Unit		_			
	Kishor Mayekar	1753					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ac	ddress	_			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	J.' lely filed the mailing date of this c O (35 U.S.C. § 133).	, ,				
Status							
1)⊠ Responsive to communication(s) filed on 24 Oc	ctober 2005.						
	action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-38</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-38</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the E	xaminer.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 Cl	FR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P1	ГО-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
1. Certified copies of the priority documents	have been received.						
<ol><li>Certified copies of the priority documents</li></ol>	have been received in Application	on No					
<ol><li>Copies of the certified copies of the prior.</li></ol>	ity documents have been receive	d in this National	Stage				
application from the International Bureau							
* See the attached detailed Office action for a list of	of the certified copies not received	d.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary (						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa						
Paper No(s)/Mail Date 10/03.	6) Other:						
D. D. L. L. L. L. C. C. L. C. C. L. C. C. L. C.							

DETAILED ACTION

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Information Disclosure Statement

1. The information disclosure statement filed 24 October 2005 fails to comply with

37 CFR 1.98(a)(1), which requires the following: (1) a list of all patents, publications,

applications, or other information submitted for consideration by the Office; (2) U.S.

patents and U.S. patent application publications listed in a section separately from

citations of other documents; (3) the application number of the application in which the

information disclosure statement is being submitted on each page of the list; (4) a column

that provides a blank space next to each document to be considered, for the examiner's

initials; and (5) a heading that clearly indicates that the list is an information disclosure

statement. The information disclosure statement has been placed in the application file,

but the information referred to therein has not been considered.

Specification

2. The disclosure is objected to because of the following informalities: the non-

updated of the co-pending application serial no. 09/924,624 in paragraph [0001], and the

reference to a non-existent Figure 5N in paragraph [0083]. Appropriate correction is

required.

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3. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

4. Claim 38 is objected to because of the following informalities: the term "and" is needed between the last two structures and the term "and" before "wherein said member scrapes" needs to be deleted. Appropriate correction is required.

### Claim Rejections - 35 USC \$ 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 3, 20, 24, 32 and 34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 3, the recitation "the distance" lacks antecedent basis.

In claim 20, the recitation "the distance" lacks antecedent basis.

In claim 24, the recitation "the distance" lacks antecedent basis.

In claim 32, the recitation "a flexible length extending" is incomplete or confusing.

In claim 34, the recitation "said collector electrode" lacks antecedent basis.

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### Claim Rejections - 35 USC § 102 and § 103

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 1-4, 6, 7, 18-24 and 34-38 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Moller et al. (US 1,469,275). Moller's invention is directed to a device for electrical precipitation of suspended particles from gases. Moller discloses that the device comprises a housing, a first electrode 2, and a movable second electrode 8,9 with an attached cleaning member 25 as claimed (Figs. 1-4 and page 2, lines 11-28). As to the device for air conditioner, since Moller discloses that the device is for gas purification (page 1, lines 49-53) and for

electrical precipitation of suspended particles from gases, it is inherently in Moller. If not, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have employed Moller's gas purification device for condition air. Further, it has been held on the intended use of a device that "apparatus claims cover what a device is, not what a device does", Hewlett-Packard Co. v. Bausch & Lomb Inc., 15 USPQ 2d 1525.

As to the subject matter of claim 2 or 7, Moller discloses it in Figs. 3 and 4.

As to the recited voltage generator of claim 18, since Moller's first and second electrodes are separated from each other and Moller's device is for electrical precipitation of suspended particles from gases, Moller's device inherently has the voltage generator for the electrical precipitation.

## Double Patenting

10. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double

patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

11. Claims 5, 8-17 and 25-33 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 2, 5, 8, 10 and 12-14 of U.S. Patent No. US Patent No. 6,350,417. Although the conflicting claims are not identical, they are not patentably distinct from each other because the patent claims, which is narrower in scope than that of the above claims, claim an electro-kinetic transporter-conditioner comprises the recited emitter electrode, removable collector electrode, high voltage generator member connected to the collector electrode, means for frictionally cleaning flexible (or length of material having a slit) and vane, rendering them obvious over each other.

#### Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kishor Mayekar whose telephone number is (571) 272-1339. The examiner can normally be reached on Monday-Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Application Information Retrieval (PAIR) system. Status information for published

Information regarding the status of an application may be obtained from the Patent

applications may be obtained from either Private PAIR or Public PAIR. Status information

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about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on

access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-

217-9197 (toll-free). If you would like assistance from a USPTO Customer Service

Representative or access to the automated information system, call 800-786-9199 (IN

USA OR CANADA) or 571-272-1000.

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